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FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
07/26/2001	Yifan Gong	TI-30869	7358
7590 11/28/2006		EXAMINER	
TEXAS INSTRUMENTS INCORPORATED		CHAWAN, VIJAY B	
•		ARTIINIT	PAPER NUMBER
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	07/26/2001 7590 11/28/2006	07/26/2001 Yifan Gong 7590 11/28/2006 ΓRUMENTS INCORPORATED 474, M/S 3999	07/26/2001 Yifan Gong TI-30869  7590 11/28/2006 EXAM  TRUMENTS INCORPORATED  474, M/S 3999  475265 ART UNIT

DATE MAILED: 11/28/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	
	09/915,911	GONG, YIFAN	
Office Action Summary	Examiner	Art Unit	
	Vijay B. Chawan	2626	
The MAILING DATE of this communi Period for Reply	ication appears on the cover sheet	with the correspondence address	
A SHORTENED STATUTORY PERIOD FOWHICHEVER IS LONGER, FROM THE M. Extensions of time may be available under the provisions after SIX (6) MONTHS from the mailing date of this comm If NO period for reply is specified above, the maximum sta Failure to reply within the set or extended period for reply Any reply received by the Office later than three months at earned patent term adjustment. See 37 CFR 1.704(b).	AILING DATE OF THIS COMMUN of 37 CFR 1.136(a). In no event, however, may unication.  Itutory period will apply and will expire SIX (6) MO will, by statute, cause the application to become	IICATION. a reply be timely filed  DNTHS from the mailing date of this communica ABANDONED (35 U.S.C. § 133).	
Status			
Responsive to communication(s) file     This action is <b>FINAL</b> .      Since this application is in condition to closed in accordance with the practice.	tb)☐ This action is non-final.  for allowance except for formal ma		s is
Disposition of Claims			
4) Claim(s) 3,5-8 and 10-19 is/are pend 4a) Of the above claim(s) is/are 5) Claim(s) is/are allowed.  6) Claim(s) 3,5-8 and 10-19 is/are rejected to.  7) Claim(s) is/are objected to.  8) Claim(s) are subject to restrict to the specification is objected to by the 10) The drawing(s) filed on is/are:  Applicant may not request that any objected to by the specificant may not request that any objected to be specificant may not request that the specificant may not request that the specificant may not request the spec	te withdrawn from consideration.  Ited.  Ition and/or election requirement.  Examiner.  a) accepted or b) objected to	•	
Replacement drawing sheet(s) including 11) The oath or declaration is objected to			
Priority under 35 U.S.C. § 119	•		
12) Acknowledgment is made of a claim f a) All b) Some * c) None of:  1. Certified copies of the priority of	documents have been received. documents have been received in of the priority documents have bee nal Bureau (PCT Rule 17.2(a)).	Application No n received in this National Stage	
Attachment(s)			
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PT 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	TO-948) Paper No	Summary (PTO-413)  (s)/Mail Date  Informal Patent Application	

Application/Control Number: 09/915,911

Art Unit: 2626

### **DETAILED ACTION**

### Claim Rejections - 35 USC § 101

1. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

2. Claims 3, 5-8, 10 -19 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter.

Claims 3, 5-8, 10 -19 define non-statutory processes because they merely manipulate an abstract idea (mathematical algorithm) without a claimed limitation to a practical application. The disclosed invention has a practical application in the technological arts (e.g. recognizing speech); however, the claimed process, is a series of steps to be performed on a computer, however, there is no input speech disclosed in the specification, only that a speech frame is considered. There is no pre or post computer activity providing a tangible end result.

# See United States Patent and Trademark Office OG Notices: 22 November 2005

Interim Guidelines for Examination of Patent Applications for Patent Subject Matter Eligibility

e. Per Se Data Transformation Test

Identifying that a claim transforms data from one value to another is not by itself sufficient for establishing that the claim is eligible for patent protection. See, e.g., Benson, 409 U.S. 63, 175 USPQ 673 (finding machine-implemented method of converting binary-coded decimal numbers into pure binary numbers unpatentable). In Benson, the claims invention was held to be merely a series of mathematical calculations having "no substantial practical application." Id. at 71, 175 USPQ at 676. Therefore, claims that perform data transformation must still be examined for whether there is a practical application of an abstract idea that produces a useful, concrete, and tangible result.

Mathematical Algorithms

Claims to processes that do nothing more than solve mathematical problems or manipulate abstract ideas or concepts are complex to analyze and are addressed herein. If the "acts" of a claimed process manipulate only numbers, abstract concepts or ideas, or signals representing any of the foregoing, the acts are not being applied to appropriate subject matter. Benson, 409 U.S. at 71-72, 175 USPQ at 676. Thus, a process consisting solely of mathematical operations, i.e., converting one set of numbers into another set of numbers, does not manipulate appropriate subject matter and thus cannot constitute a statutory process.

Art Unit: 2626

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The disclosed invention of speech recognition searching method for decoding multiple HMM sets using a generic base sentence network, is merely manipulation of mathematical data using a mathematical algorithm and probability analysis, with out the steps reciting how speech is being recognized.

### Response to Arguments

3. Applicant's arguments filed 9/6/06 have been fully considered but they are not persuasive. Claims as amended do not overcome the 35 USC 101 rejection. See above.

#### Conclusion

4. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

Application/Control Number: 09/915,911

Art Unit: 2626

the advisory action. In no event, however, will the statutory period for reply expire later

than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Vijay B. Chawan whose telephone number is (571) 272-

7601. The examiner can normally be reached on Monday Through Friday 6:30-3:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Richemond Dorvil can be reached on (571) 272-7602. The fax phone

number for the organization where this application or proceeding is assigned is (571)

273-8300.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

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Business Center (EBC) at 866-217-9197 (toll-free).

Vijay B. Chawan Primary Examiner Page 4

Art Unit 2654

vbc 11/26/06

VIJAY CHAWAN PRIMARY EXAMINER